

THE COMMONWEALTH OF MASSACHUSETTS

**DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
BUREAU OF AIR QUALITY CONTROL**

**REGULATIONS FOR PREVENTION AND/OR ABATEMENT OF AIR POLLUTION
EPISODE AND AIR POLLUTION INCIDENT EMERGENCIES**

REGULATION 1. INTRODUCTION

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The purpose of the “Regulations for Prevention And/or Abatement of Air Pollution Episode and Air Pollution Incident Emergencies” is to prevent ambient air contaminant concentrations at any location in the Commonwealth from reaching levels which would constitute imminent and substantial endangerment to the health of persons. The levels which would constitute imminent and substantial endangerment to the health of persons as have been defined by the Administrator of the Environmental Protection Agency are set forth in the table below:

CONTAMINANT CONCENTRATION LEVELS

Prescribed by the EPA Administrator as would cause Imminent
and Substantial Endangerment to Health

| Contaminant | Ambient Air Contaminant Concentration Levels | | | | |
|-----------------------------------|--|--------------------|--------|----------|---------|
| | Ave. ugm/M ³ | ppm | COHs | Duration | Product |
| Sulfur Dioxide (SO ₂) | 2,620 | 1.0 | | 24-hr. | |
| Particulate Matter | | | | | |
| Hi-Vol (TSP) | 1,000 | | | 24-hr. | |
| Tape Stain (COHs) | | | 8 | 24-hr. | |
| Product of: | | | | | |
| (SO ₂) x (TSP) or | (SO ₂) (TSP) | | | | 490,000 |
| (SO ₂) x (COHs) | | (SO ₂) | (COHs) | 24-hr. | 1.5 |
| Carbon Monoxide | 144,000 | 125 | | 1-hr. | |

| | | | | | |
|-----------------------|--------|------|--|--------|--|
| Carbon Monoxide | 86,300 | 75 | | 4-hr. | |
| Carbon Monoxide | 57,500 | 50 | | 8-hr. | |
| Photochemical Oxidant | 1,200 | 0.6* | | 1-hr. | |
| Nitrogen Dioxide | 3,750 | 2.0 | | 1-hr. | |
| Nitrogen Dioxide | 938 | 0.5 | | 24-hr. | |

* expressed as Ozone (O₃)